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Bailey Microscopical Club.

TABLE

SHOWING THE

ACTUAL MAGNIFYING POWER

OF

THIRTY-FIVE MICROSCOPICAL OBJECTIVES
OF VARIOUS MAKERS.

*As determined at a meeting of the Bailey Microscopical Club,
held in New York, September 20, 1870.*

In this table the magnifying power of the objective is expressed by the number of diameters which an object is magnified in the image thrown by the objective, when such image is brought to a focus and measured upon a plane exactly ten inches from that of the object itself. In the case of objectives adjustable for thickness of covering glass, the table shows the power of the lens with the adjustment set at "uncovered" in objectives so marked, or at the zero point of the screw collar, the latter being turned so as to effect the greatest separation of the combinations.

Designation of the ob- jective as rated by the maker.	NAME OF MAKER.	NAME OF OWNER.	Theoretical magnifying power according to the maker's rating.	Actual magnifying power.	REMARKS.
1½ inch.	Zentmayer.	C. R. Agnew.	6.66	5	
1 "	Smith and Beck.	E. Curtis.	10	12.50	
1 "	" " "	"	10	13.90	
⅞ "	Zentmayer.	C. R. Agnew.	12.50	9.09	
⅞ "	Wales.	J. G. Curtis.	15	14.28	
⅞ "	"	J. J. Higgins.	15	15	
⅞ "	Zentmayer.	H. Morton	25	25	
⅞ "	Wales.	J. B. Rich.	25	32.50	
⅞ "	"	W. Dean.	25	33.33	
⅞ "	"	C. R. Agnew.	25	33.33	
⅞ "	"	J. J. Higgins.	25	34	
⅞ "	Tolles.	J. E. Gavit.	30	25	
⅞ "	Collins.	J. W. Ward.	40	46	
⅞ "	Smith and Beck.	E. Curtis.	40	46.66	
⅞ "	" " "	"	40	46.66	
⅞ "	Wales.	J. G. Curtis.	40	48	
⅞ "	Tolles.	T. d'Orémieulx.	50	50	
⅞ "	Wales.	W. Dean.	50	52.50	
⅞ "	"	C. R. Agnew.	50	53.33	
⅞ "	"	J. W. Ward.	50	53.33	
⅞ "	"	J. B. Rich.	50	54	
⅞ "	"	J. J. Higgins.	50	55	
⅞ "	Smith and Beck.	J. E. Gavit.	50	53.33	
⅞ "	Powell and Lealand.	J. W. Ward.	60	60	
⅞ "	Wales.	J. J. Higgins.	80	71.43	With back for direct light
⅞ "	"	J. B. Rich.	80	75	With back for oblique light
⅞ "	"	J. E. Gavit.	80	76.66	
⅞ "	"	T. d'Orémieulx.	80	80	
⅞ "	immersion.	W. Dean.	150	95	Examined dry.
⅞ "	"	C. R. Agnew.	150	100	" "
⅞ "	"	J. J. Higgins.	150	100	" "
⅞ "	"	J. E. Gavit.	150	105	" "
⅞ "	"	J. W. Ward.	150	120	" "
No. 10.	Hartnack.	J. E. Gavit.	—	130	
⅞ inch immersion.	Wales.	E. N. Dickerson.	300	200	Examined dry.

